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Intel Legal Team

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OCT 04 2005

**Fax**

Page 1 of 6

Date: October 4, 2005

To: Anatoly Vortman      Fax: 571-273-8300      Phone: 571-272-2047  
United States Patent and Trademark Office

From: David N. Tran      Fax: 408-765-7723      Phone: 408-765-4692

Subject:      Amendment and Response for Application Serial No. 10/712,191

**A CONFIRMATION COPY OF THIS DOCUMENT:**

WILL NOT BE SENT

Application No.: 10/712,191  
Filing Date: November 12, 2003  
First Named Inventor: Himanshu Pokharna, et al.  
Group Art Unit: 2835  
Examiner Name: Vortman, Anatoly  
Attorney Docket No.: P17632

**Enclosures:**

1. Transmittal Form (1 page)
2. Fee Transmittal for FY 2005 (1 page in duplicate)
3. Response to Restriction Requirement (2 pages).

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PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0851-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/712,191
	Filing Date	November 12, 2003
	First Named Inventor	Himanshu Pokharna, et al.
	Art Unit	2835
	Examiner Name	Vortman, Anatoly
	Attorney Docket Number	P17632
Total Number of Pages in This Submission		5

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Intel Corporation		
Signature	/ David N. Tran /		
Printed name	David N. Tran		
Date	October 4, 2005	Reg. No.	50,804

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:			
Signature	/ David N. Tran /		
Typed or printed name	David N. Tran	Date	October 4, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04v2)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4618). <b>FEE TRANSMITTAL</b> <b>For FY 2005</b>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/712,191
		Filing Date	November 12, 2003
		First Named Inventor	Himanshu Pokharna, et al.
		Examiner Name	Vortman, Anatoly
		Art Unit	2835
		Attorney Docket No.	P17832
TOTAL AMOUNT OF PAYMENT (\$)		0.00	

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☒ Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

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## FEE CALCULATION

## 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

## 2. EXCESS CLAIM FEES

## Fee Description

Each claim over 20 (including Reissues)

Fee (\$)	Small Entity Fee (\$)
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Each independent claim over 3 (including Reissues)

50	25
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Multiple dependent claims

200	100
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Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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Multiple Dependent Claims
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- 20 or HP =	Extra Claims	Fee (\$)	Fee Paid (\$)
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Fee (\$)	Fee Paid (\$)
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HP = Highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
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360	180
-----	-----

- 3 or HP =	Extra Claims	Fee (\$)	Fee Paid (\$)
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0	0
---	---

HP = Highest number of Independent claims paid for, if greater than 3.

## 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
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- 100 =	Extra Sheets	/ 50 =	(round up to a whole number) x	Fee (\$)	Fee Paid (\$)
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## 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Fees Paid (\$)
----------------

Other (e.g., late filing surcharge):

0
---

## SUBMITTED BY

Signature	/ David N. Tran /	Registration No. (Attorney/Agent) 50,804	Telephone 408-765-4692
Name (Print/Type)	David N. Tran	Date October 4, 2005	

This collection of information is required by 37 CFR 1.138. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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 PTO/SB/17 (12-04v2)  
 Approved for use through 07/31/2006, OMB 0851-0032  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Effective on 12/08/2004.  
 Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4918).

## FEE TRANSMITTAL For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

### Complete if Known

Application Number 10/712,181  
 Filing Date November 12, 2003  
 First Named Inventor Himanshu Pokharna, et al.  
 Examiner Name Vortman, Anatoly  
 Art Unit 2835  
 Attorney Docket No. P17632

### METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):

☒ Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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### FEE CALCULATION

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0
Design	200	100	100	50	130	65	0
Plant	200	100	300	150	160	80	0
Reissue	300	150	500	250	600	300	0
Provisional	200	100	0	0	0	0	0

#### 2. EXCESS CLAIM FEES

##### Fee Description

Each claim over 20 (including Reissues)

Fee (\$)  
50

Small Entity Fee (\$)  
25

Each independent claim over 3 (including Reissues)

Fee (\$)  
200

Small Entity Fee (\$)  
100

Multiple dependent claims

Fee (\$)  
360

Small Entity Fee (\$)  
180

Total Claims Extra Claims Fee (\$)

- 20 or HP = x = 0

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$)

- 3 or HP = x = 0

HP = highest number of independent claims paid for, if greater than 3.

##### Multiple Dependent Claims

Fee (\$)

Fee Paid (\$)

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

- 100 = / 50 = (round up to a whole number) x = 0

#### 4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Fee Paid (\$)

Other (e.g., late filing surcharge):

0

0

### SUBMITTED BY

Signature / David N. Tran /	Registration No. (Attorney/Agent) 60,804	Telephone 408-765-4692
Name (Print/Type) David N. Tran		Date October 4, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**OCT 04 2005**

Attorney's Docket No.: P17632

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
Himanshu Pokharna, et al.

Application No. 10/712,191

Filed: 11/12/2003

Title: Pumped Liquid Cooling For  
Computer Systems Using Liquid Metal  
Coolant

Examiner: Vortman, Anatoly

Art Unit: 2835

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

**RESPONSE TO RESTRICTION REQUIREMENT**

Sir:

In response to the election requirement set forth in the Office Action  
mailed on September 16, 2005, for the above-referenced patent application,  
please consider the election remarks set forth below.

**CERTIFICATE OF TRANSMISSION****37 C.F.R. § 1.8(a)**

I hereby certify that this correspondence is being  
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and Trademark Office on  
Date: October 4, 2005\_

Name: David N. Tran \_\_\_\_\_

Signature: / David N. Tran / \_\_\_\_\_